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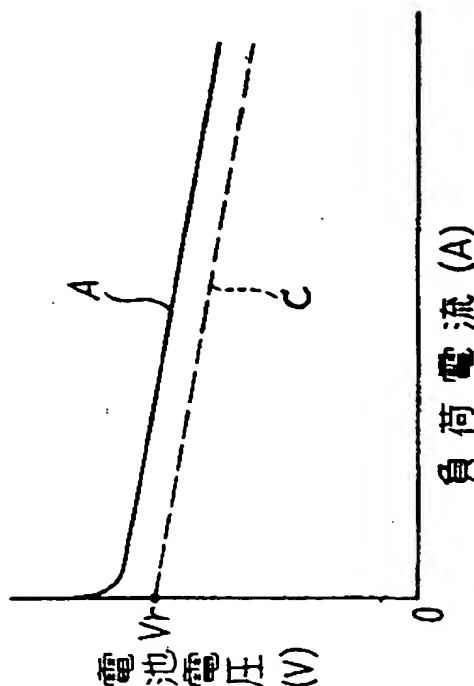
APPLICATION DATE : 01-08-83
APPLICATION NUMBER : 58139389

APPLICANT : TECH RES & DEV INST OF JAPAN DEF AGENCY;

INVENTOR : WATANABE KENICHI;

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TITLE : METHOD OF CONTROLLING SUPPLY OF FUEL AND OXIDIZING AGENT



ABSTRACT : PURPOSE: To minimize voltage fluctuation by supplying fuel and oxidizing agent when inclination similar to that of a load current - cell voltage curve is provided and the set value of such a voltage setting curve as located at the lower side of the curve is compared with the cell voltage and the difference becomes larger than the predetermined value.

CONSTITUTION: A control voltage set value C is made to be the same or similar to an inclination of a load current - cell voltage curve A. The set value C is expressed in the formula $V_r - k \cdot r \cdot I_L$. Provided that, V_r is a set voltage when the load current is 0A, I_L is the load current, r is a current detecting resistance and k is a constant which makes partial pressure of the voltage on both ends of current detecting resistance. Therefore, $V_r - k \cdot r \cdot I_L$ is compared with the cell voltage and when the difference becomes larger than the predetermined value, fuel and oxidizing agent are supplied. Then, cell performance with less voltage fluctuation can be obtained even when the load current is fluctuated.

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